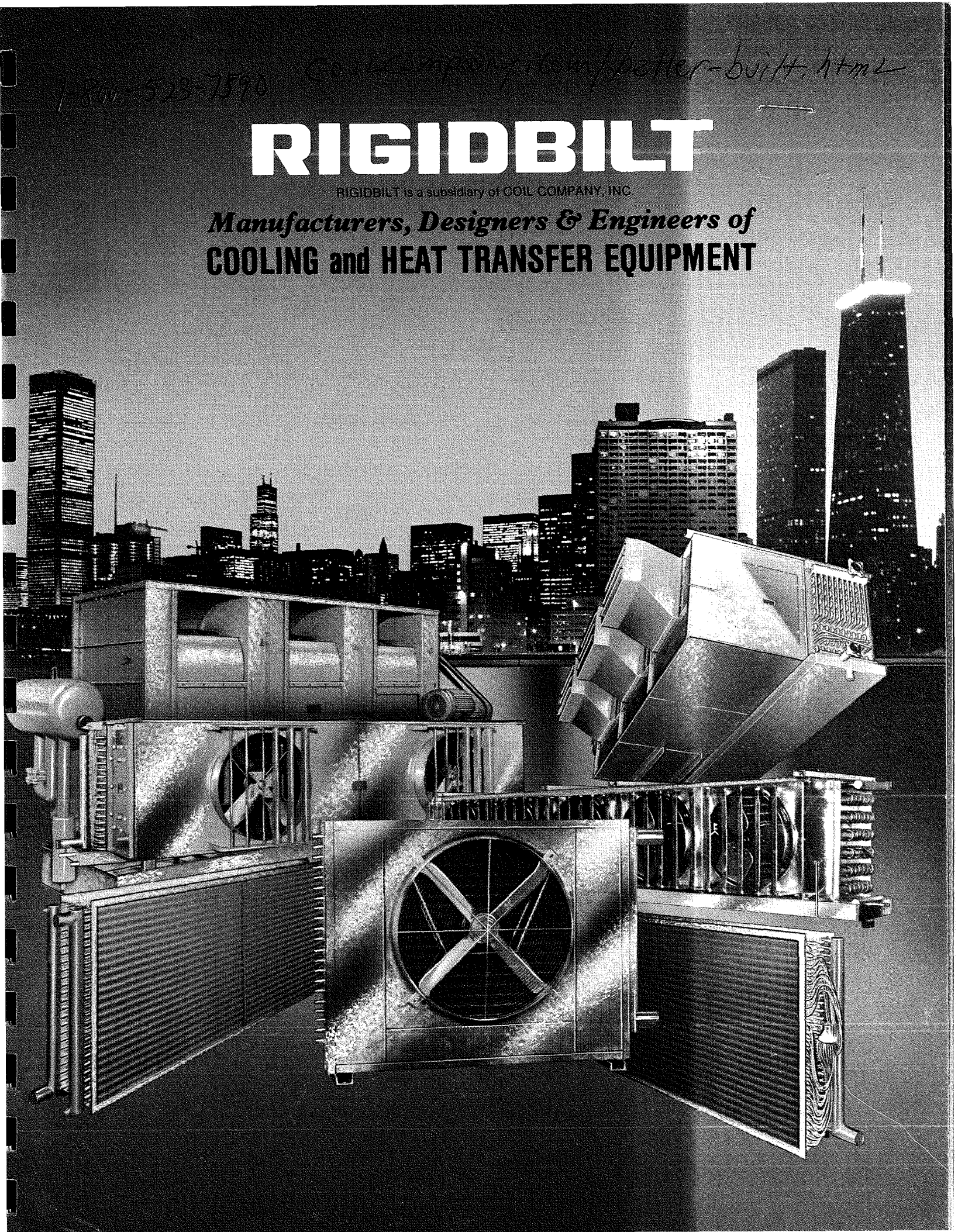
1-800-523-1590 Coil Company, Completely Factory-built, Inc.

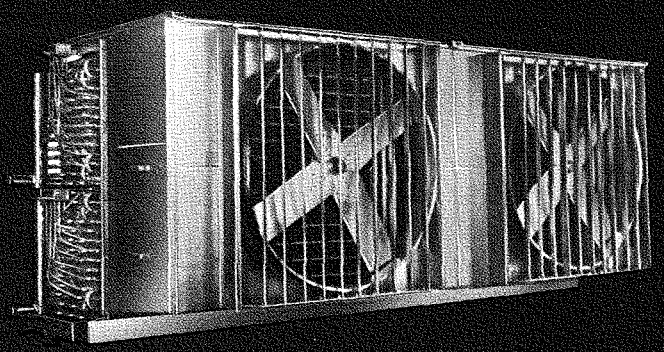
RIGIDBILT

RIGIDBILT is a subsidiary of COIL COMPANY, INC.

Manufacturers, Designers & Engineers of

COOLING and HEAT TRANSFER EQUIPMENT





AF product coolers

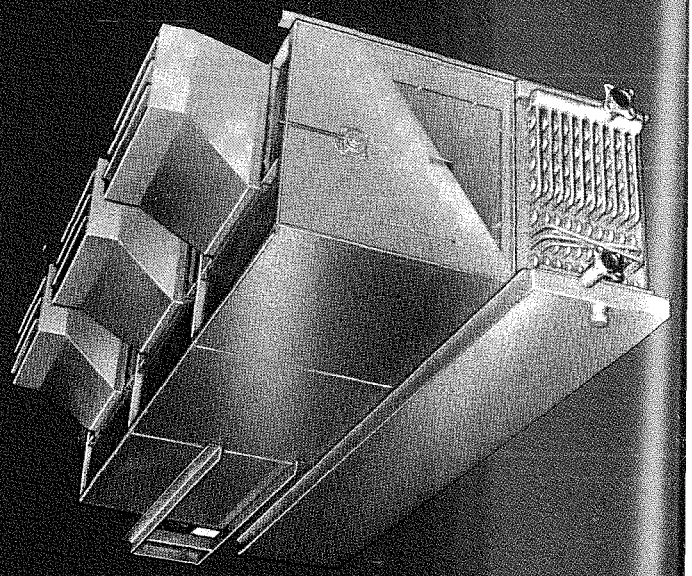
- Axial fan propellers
- 10,000 to 54,000 CFM
- Copper, steel, aluminum & stainless steel coils
- Ammonia, Freon, Brine & Glycol
- Flooded, recirculated and direct expansion
- Hot gas, water and air defrost
- Cabinets galvanized steel or hot dip galvanized after fabrication

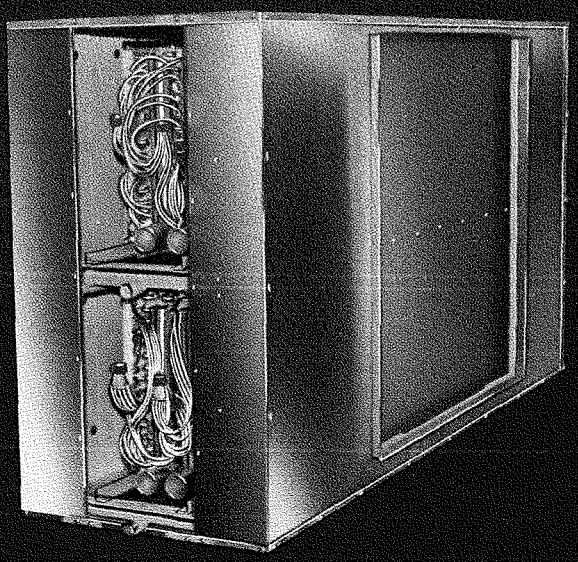
Ask for "AF" Bulletin

C product coolers

- Centrifugal fan (Cowls/directional louvers avail.)
- 3,000 to 50,000 CFM
- Copper, steel, aluminum & stainless steel coils
- Ammonia, Freon, Brine & Glycol
- Flooded, recirculated and direct expansion
- Hot gas, water and air defrost
- Cabinets galvanized steel or hot dip galvanized after fabrication

Ask for "C" Bulletin

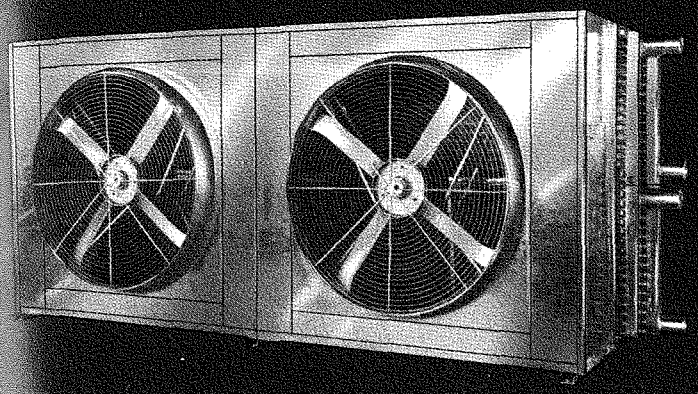




SP special coil housings

- Custom air conditioning
- Custom process systems
- Slide-out coils
- Available with copper, steel, stainless steel or cupro-nickel coils

Call us for special application information.

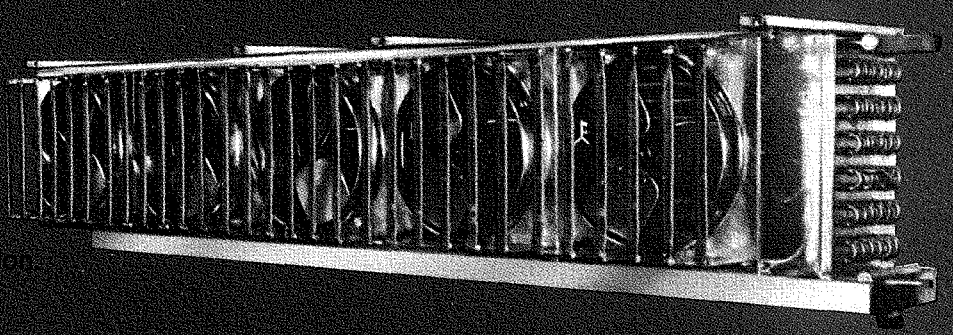


HR heat recovery units

- Custom engineered
- Propeller and centrifugal fans
- Copper, steel, aluminum and SS 304 stainless steel coils
- Downflow water units
- Space and freezer floor heating
- Run around heat recovery
- Process heat transfer

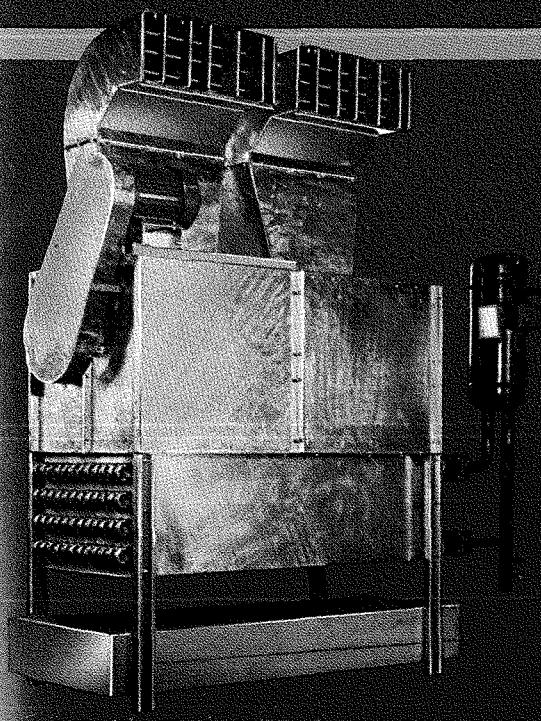
Ask for "GB" Bulletin

UC unit coolers



- Propeller fans – 18", 20", 24"
- 1,800 to 30,000 CFM
- Copper, steel, aluminum & stainless steel coils
- Ammonia, Freon, Brine & Glycol
- Flooded, recirculated and direct expansion
- Hot gas, water and air defrost
- Cabinets galvanized steel or hot dip galvanized after fabrication
- 5/8, 3/4, and 1" O.D. tubes

Ask for "UC" Bulletin

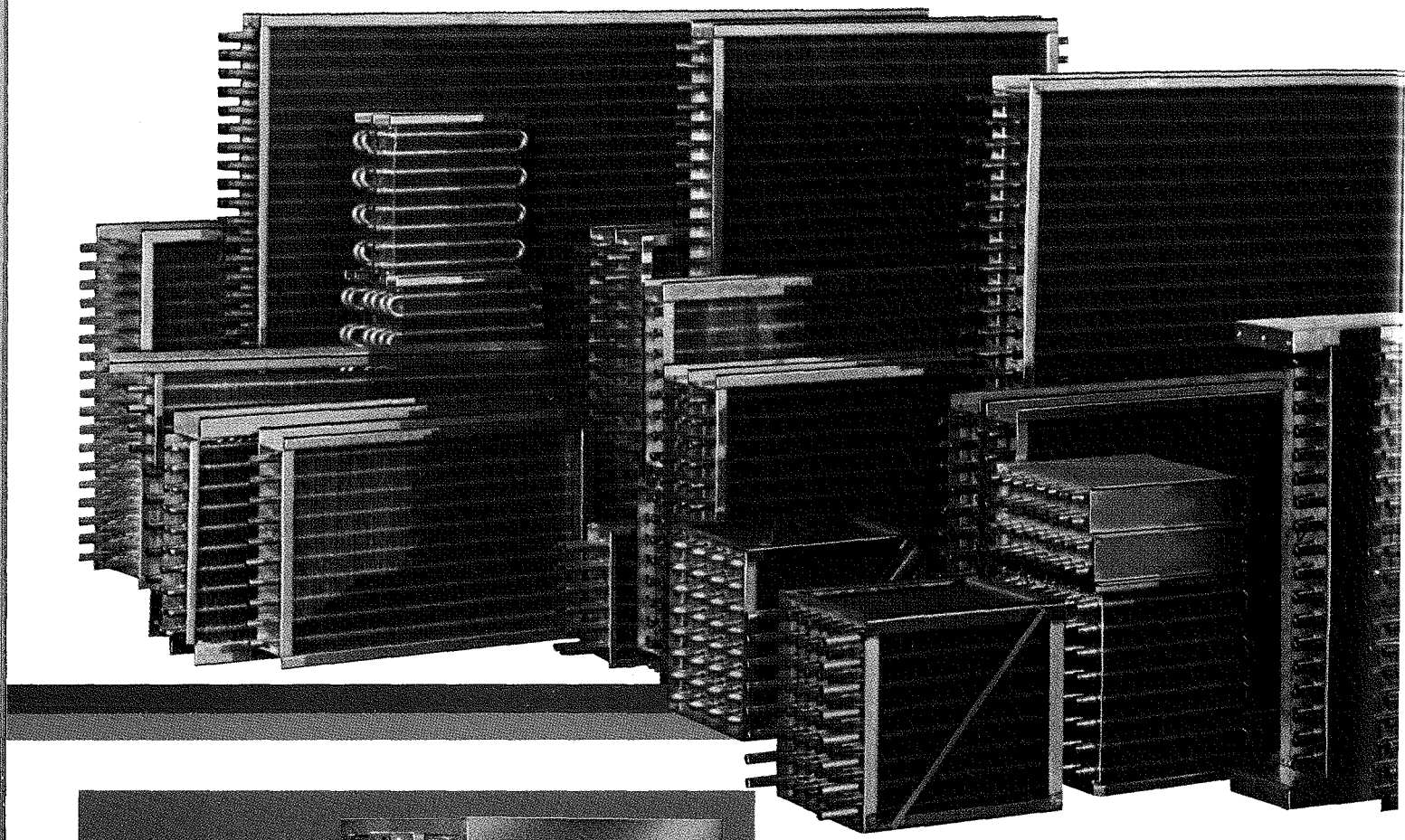


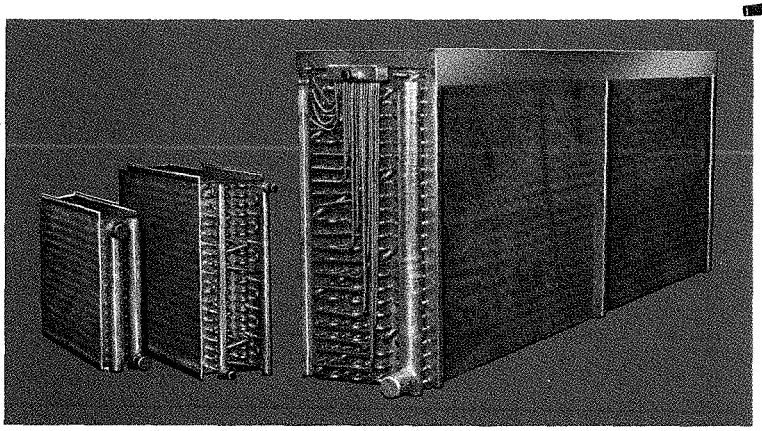
F floors units

- Centrifugal (w/scrolls or directional louvers if air) or axial propeller fan (AFF)
- 1,200 to 30,000 CFM
- Copper, steel, aluminum & stainless steel coils
- Ammonia, Freon, Brine & Glycol
- Flooded, recirculated and direct expansion
- Brine spray units available
- Hot gas, water and air defrost
- Cabinets galvanized steel or hot dip galvanized after fabrication

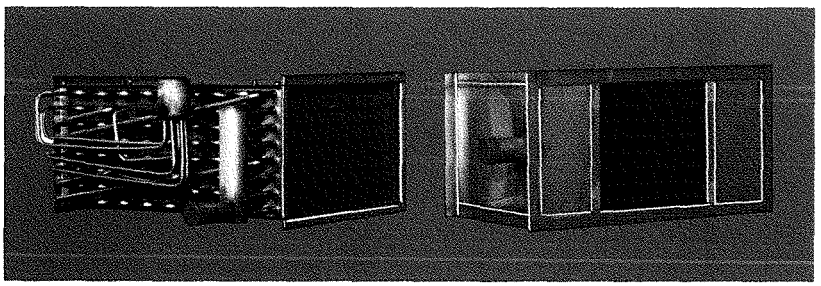
Ask for "F" Bulletin

RIGIDBILT custom and replacement FIN COILS . .





Hot dip galvanized ammonia coils



Stainless steel coils

Conventional cooling

Air-tight casing

External Finishing & Testing

Hot Dip Galvanizing: All carbon steel fin coils and bare tube coils may be hop dip galvanized.

Phenolic Coatings: All fin tube and bare tube coils may be phenol coated to resist externally corrosive chemical vapor or gas attack. Resistance to practically all acids and solvents is possible. Suitable for temperatures up to 450°F. Coating is an excellent conductor and does not reduce the thermal transfer.

Testing: All Rigidbilt coils are tested with 300 lb. air pressure under water after fabrication.

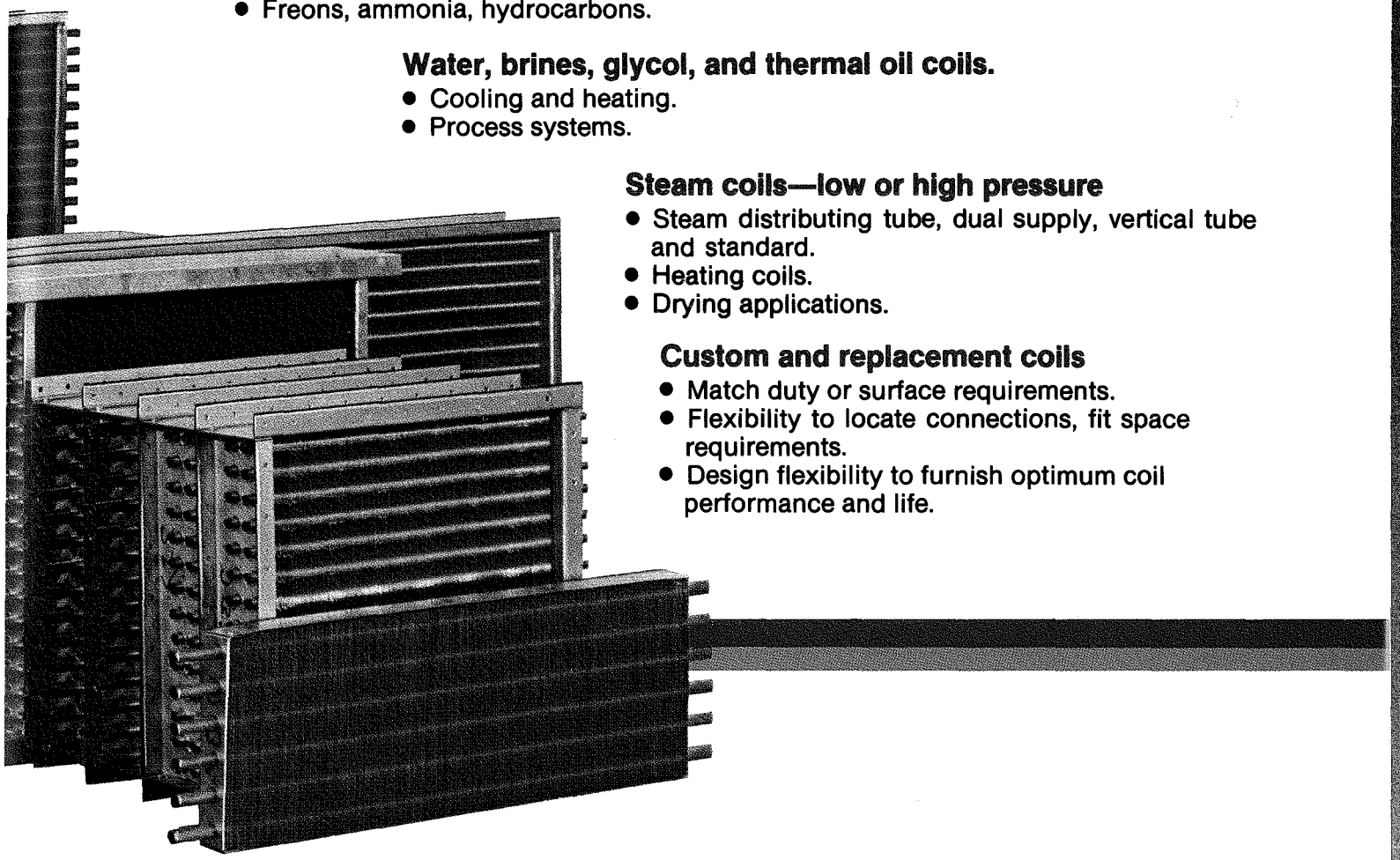
RIGIDBILT builds a variety of fin coils to satisfy commercial and industrial applications.

Air conditioning and refrigeration coils
- Direct expansion, flooded and recirculated.
- Freons, ammonia, hydrocarbons.

Water, brines, glycol, and thermal oil coils.
- Cooling and heating.
- Process systems.

Steam coils—low or high pressure
- Steam distributing tube, dual supply, vertical tube and standard.
- Heating coils.
- Drying applications.

Custom and replacement coils
- Match duty or surface requirements.
- Flexibility to locate connections, fit space requirements.
- Design flexibility to furnish optimum coil performance and life.



Metals Used In Coil Construction

Copper and cupro-nickel tube coils
5/8 and 3/4" tubes with copper or aluminum fins*

Aluminum tube coils
5/8 and 3/4" tubes with aluminum fins*

Stainless steel coils (types 304 & 316*)
5/8 and 3/4" tubes with stainless, copper and aluminum fins

Carbon steel coils
5/8, 3/4 and 1" tubes with steel or aluminum fins.* Tubes expanded on hot dip galvanized.

Other equipment designed and manufactured
- Bare tube coils
- Pipe coils
- Air tight casings
- Coil assemblies, etc.

*Other materials available

RIGIDBILT since 1936

From our inception in 1936, RIGIDBILT has produced a wide variety of fin coils for freezing/cooling/heating industrial applications. In addition, we build complete air handling units utilizing both propeller fans and centrifugal blowers, so that a wide range of products is available for refrigeration, heating and air conditioning applications. "RIGIDBILT is Better Built" has long been the guiding principle in the manufacture of our products. Material and production quality standards have never been sacrificed, and we continue to manufacture heavy-duty equipment designed for long and trouble-free service. Skilled workmen and a rigid testing program assure our customers of a dependable, high quality product.

RIGIDBILT builds for a wide variety of applications

Because of RIGIDBILT'S long specialization in custom-designed equipment, our engineers are exceptionally well equipped to assist you in designing the most efficient and economical coils and units to suit your space limitations and special service requirements.

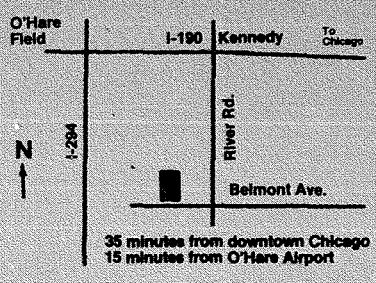
Other COIL COMPANY products available to serve your heat transfer needs:

FLEX-AIRE custom air handling apparatus; QUICK-AIRE packaged air handlers; Space Coolers™; unit heaters; replacement fans; and an almost endless array of finned surface heat transfer coil patterns and materials.

Ask for Bulletins for your specific need

RIGIDBILT

9240 W. Belmont Ave., Franklin Park, IL 60131
312-671-1512 1-800/468-8648
Telex 62927299



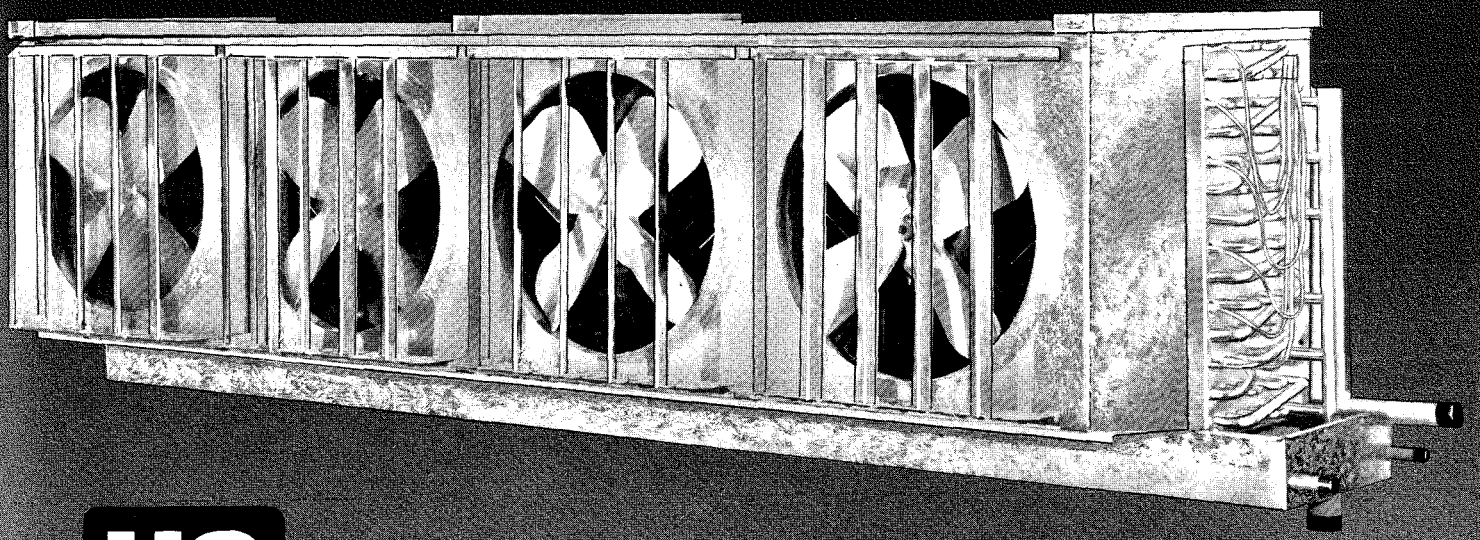
Representatives in every major city

5000/685

Bulletin UC-73

RIGIDBILT

EQUIPMENT



UC unit coolers

Blow Through or Draw Through

- Series: UC-18 1,990 CFM to 11,940 CFM
- Series: UC-20 3,300 CFM to 16,500 CFM
- Series: UC-24 4,900 CFM to 24,500 CFM
- Ammonia, Freons, Brines, Glycols
- Flooded, TXV, Recirculated
- Hot Gas Defrost, Water Defrost
- Copper, Steel, Stainless Steel and Aluminum Coils
- Cabinets: Hot Dip Galvanized and Stainless Steel

RIGIDBILT IS BETTER BUILT

UC unit coolers

- **Product Holding Coolers**
- **Storage Coolers**
- **Work Room Coolers**

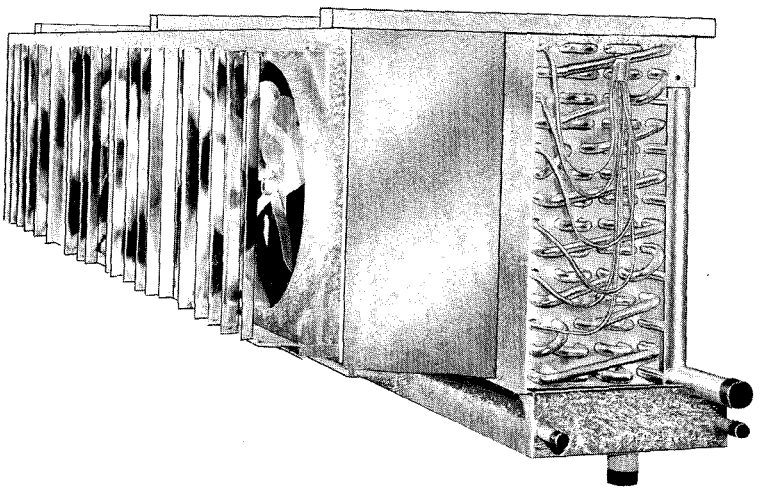
HALOCARBON COILS— Copper tubes and aluminum fins

AMMONIA COILS—Steel, hot dip galvanized ¾" O.D. x .045" wall—A214 tubes. ¾" O.D. x .083" wall tubes available

CABINETS—Steel, Hot Dip galvanized and stainless steel type 304

DRAIN PANS: Standard air defrost—hot dip galvanized inner pan with 1" thick insulation and galvanized steel outer pan.

HOT GAS PAN—Carbon steel coil and inner pan with galvicon finish, 1" insulation and galvanized steel outer pan.



TYPICAL SPECIFICATIONS

AMMONIA or BRINE COIL: Tubes are ¾" OD steel. Steel fins have extruded holes and collars. Tube sheets of 14 ga. steel with extruded holes for tubes. Headers of heavy wall steel tubing with MPT connections. All joints welded. Coil tested to 250 PSI minimum with air while fully submerged in water. Coil completely hot dip galvanized after fabrication. Circuited for direct expansion ammonia with multi-outlet distributor, for gravity feed flooded ammonia operation, for recirculated ammonia, or for brine circulation, as required.

FREON COIL: Tubes ¾" OD seamless copper, mechanically expanded into fin collars. Aluminum fins have extruded holes and collars. Tube sheets of 14 ga. steel with extruded holes for tubes. Headers of seamless copper tube with ODS connections. All joints brazed with an alloy of copper-silver-phosphorus, using no flux. Coil tested to 250 PSI minimum air pressure while fully submerged in water. Circuited for direct expansion with multi-outlet distributor.

DRAIN PAN: Heavy gauge hot rolled steel with welded seams. Pan to extend beyond return bends and headers. Pitched for quick draining. Hot dip galvanized after fabrication. Arranged for easy removal without disturbing remainder of unit.

Insulated drain pan, as above, with outer pan of galvanized steel and 1" insulation between inner and outer pan.

Hot gas defrost drain pan has coil attached to underside of inner pan. Coil and pan are protected with a heavy coat of heat conducting, corrosion-resisting zinc paint. Pans are insulated and double pan construction is used. Outer pan is galvanized steel, primed and painted.

Drain pan covers entire cabinet including coil and fan sections. Condensate from coil, bends, headers, and inside or outside of casing into the pan.

CASING: Top and bottom cover, side covers, fan rings, motor supports and louvers are heavy gauge steel, punched and formed, hot dip galvanized after fabrication.

HANGERS: Steel channels, hot dip galvanized after fabrication.

LOUVERS: Louvers (on draw-through models only) are hot dip galvanized after fabrication and attached to casing with nuts and bolts. On each fan, the louver assembly may be positioned in the field so blades are either vertical or horizontal.

Vertical louvers are available on blow-through units at a nominal extra charge.

MOTORS: Standard, open, drip-proof, NEMA frames, manufacturers standard catalog items, readily available. Single phase motors have built-in overload protection. Motors ¼, 1/3, ½ HP are 1160 RPM. Motor HP is nominal and wiring should be adequate for next larger motor size to allow for variations in voltage, friction, air density, etc. Motors on draw through units are furnished with rubber covered cords extended out to front of units.

FANS: Heavy duty type with steel or aluminum blades riveted to steel or cast iron hub. Set screw in hub to hold fan in position.

PLENUM: All units are provided with a deep plenum between coil and venturi to insure more uniform air distribution over coil and to minimize ice or frost accumulation on venturi and fans.

WATER DEFROST: Galvanized steel water distributing pan arranged so water will clean entire coil.

HOT GAS DEFROST: Arranged so that hot gas heats drain pan and enters coil through refrigerant distributor or through separate hot gas header.

NUTS AND BOLTS: All nuts and bolts used in assembly are cadmium plated.

SURGE DRUMS: For flooded operation, consult factory for surge drum sizes. For specific jobs, Rigidbilt can quote on one or more unit coolers operating on a common drum, with or without valves and controls.

VARYING FIN SPACINGS: Coils are available with different fin spacings on entering and leaving air side. For heavy frosting conditions, coils are available with 2 or 3 F.P.I. on entering side and 3, 4, or 6 F.P.I. on leaving air side. Coils are also available with uniform fin spacings of 2 or 6 F.P.I. For prices, please consult RIGIDBILT.

RIGIDBILT UNIT COOLERS

CAPACITIES (BTU/HR.)

BLOW THROUGH "BC" 18"—20"—24" SERIES

MODEL	CFM	Basic Rating 1° TD Flooded or Recirc.	Basic Rating 1° TD TXV	Approx. Air Throw Ft.
4-FINS PER INCH				
BC4-118	1,990	1,400	1,250	35
BC4-218	3,980	2,800	2,500	35
BC4-318	5,970	4,200	3,750	35
BC4-418	7,960	5,600	5,000	35
BC4-518	9,950	7,000	6,250	35
BC4-618	11,940	8,400	7,500	35
BC4-120	3,300	2,310	2,060	40
BC4-220	6,600	4,620	4,120	40
BC4-320	9,900	6,930	6,180	40
BC4-420	13,200	9,240	8,240	40
BC4-520	16,500	11,550	10,300	40
BC4-124	4,900	3,450	3,070	45
BC4-224	9,800	6,900	6,140	45
BC4-324	14,700	10,350	9,210	45
BC4-424	19,600	13,800	12,280	45
BC4-524	24,500	17,250	15,350	45
3-FINS PER INCH				
BC3-118	1,990	1,180	1,050	35
BC3-218	3,980	2,360	2,100	35
BC3-318	5,970	3,540	3,150	35
BC3-418	7,960	4,720	4,200	35
BC3-518	9,950	5,900	5,250	35
BC3-618	11,940	7,080	6,300	35
BC3-120	3,300	1,950	1,735	40
BC3-220	6,600	3,900	3,470	40
BC3-320	9,900	5,850	5,205	40
BC3-420	13,200	7,800	6,940	40
BC3-520	16,500	9,750	8,675	40
BC3-124	4,900	2,910	2,590	45
BC3-224	9,800	5,820	5,180	45
BC3-324	14,700	8,730	7,770	45
BC3-424	19,600	11,640	10,360	45
BC3-524	24,500	14,550	12,950	45

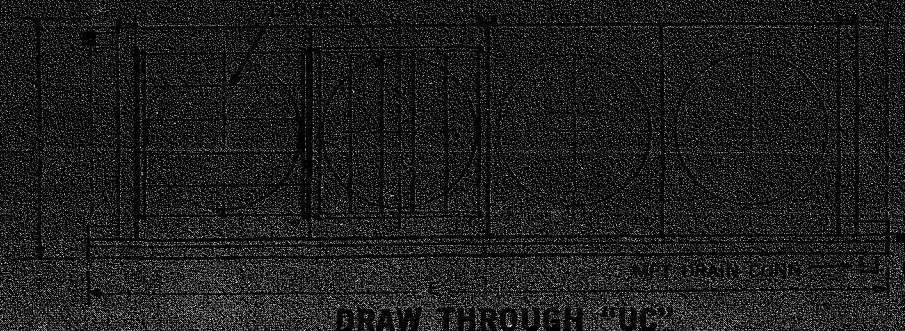
DRAW THROUGH "UC" 18"—20"—24" SERIES

MODEL	CFM	Basic Rating 1° TD Flooded or Recirc.	Basic Rating 1° TD TXV	Approx. Air Throw Ft.
4-FINS PER INCH				
UC4-118	1,990	1,450	1,290	45
UC4-218	3,980	2,900	2,580	45
UC4-318	5,970	4,350	3,870	45
UC4-418	7,960	5,800	5,160	45
UC4-518	9,950	7,250	6,450	45
UC4-618	11,940	8,700	7,740	45
UC4-120	3,300	2,400	2,140	50
UC4-220	6,600	4,800	4,280	50
UC4-320	9,900	7,200	6,420	50
UC4-420	13,200	9,600	8,560	50
UC4-520	16,500	12,000	10,700	50
UC4-124	4,900	3,580	3,180	60
UC4-224	9,800	7,160	6,360	60
UC4-324	14,700	11,740	9,540	60
UC4-424	19,600	14,320	12,720	60
UC4-524	24,500	17,900	15,900	60
3-FINS PER INCH				
UC3-118	1,990	1,220	1,085	45
UC3-218	3,980	2,440	2,170	45
UC3-318	5,970	3,660	3,255	45
UC3-418	7,960	4,880	4,340	45
UC3-518	9,950	6,100	5,425	45
UC3-618	11,940	7,320	6,510	45
UC3-120	3,300	2,020	1,800	50
UC3-220	6,600	4,040	3,600	50
UC3-320	9,900	6,060	5,400	50
UC3-420	13,200	8,080	7,200	50
UC3-520	16,500	10,100	9,000	50
UC3-124	4,900	3,020	2,690	60
UC3-224	9,800	6,040	5,380	60
UC3-324	14,700	9,060	8,070	60
UC3-424	19,600	12,080	10,760	60
UC3-524	24,500	15,100	13,450	60

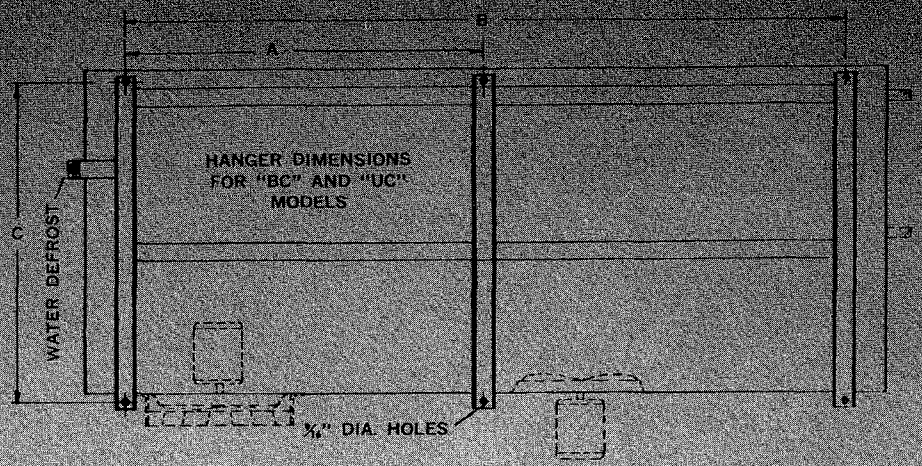
	MODEL	MOTORS NO.	MOTORS H.P.	FANS	DRAIN MPT	*WATER DEFROST GPM	*WATER DEFROST MPT	Conn. To Hot Gas Coil In Pan-MPT	Int. Coil Vol. Cu. Ft.	Lineal Ft. of Tubing
BC4- and BC3- UC4- and UC3-	-118	1	1/4	18"	1-1/2"	5	1"	1/2" MPT	.49	111
	-218	2	1/4	18"	1-1/2"	11	1"	1/2" MPT	.74	220
	-318	3	1/4	18"	1-1/2"	17	1"	1/2" MPT	1.00	330
	-418	4	1/4	18"	2"	23	1-1/2"	1/2" MPT	1.26	440
	-518	5	1/4	18"	2"	29	1-1/2"	3/4" MPT	1.55	550
	-618	6	1/4	18"	2-1/2"	35	2"	3/4" MPT	1.80	660
	-120	1	1/3	20"	1-1/2"	6	1"	1/2" MPT	.69	182
	-220	2	1/3	20"	1-1/2"	13	1"	1/2" MPT	1.11	364
	-320	3	1/3	20"	2"	20	1-1/2"	1/2" MPT	1.54	546
	-420	4	1/3	20"	2"	27	1-1/2"	3/4" MPT	1.97	728
	-520	5	1/3	20"	2-1/2"	34	2"	3/4" MPT	2.40	910
	-124	1	1/2	24"	1-1/2"	9	1"	1/2" MPT	.91	272
	-224	2	1/2	24"	1-1/2"	18	1"	1/2" MPT	1.55	544
	-324	3	1/2	24"	2"	27	1-1/2"	3/4" MPT	2.19	816
	-424	4	1/2	24"	2-1/2"	36	2"	3/4" MPT	2.83	1088
	-524	5	1/2	24"	2-1/2"	45	2"	3/4" MPT	3.50	1360

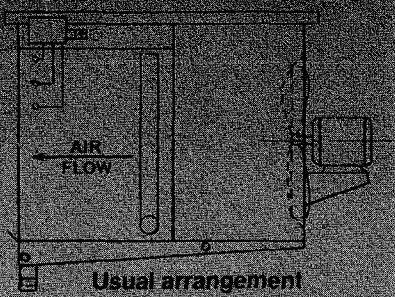
Models may be designated by adding letters as follows: "A" for ammonia; "B" for brine; "F" for freon; "HG" for hot gas defrost; "WD" for water defrost.

*Water should be 60° to 90° at 10 P.S.I.

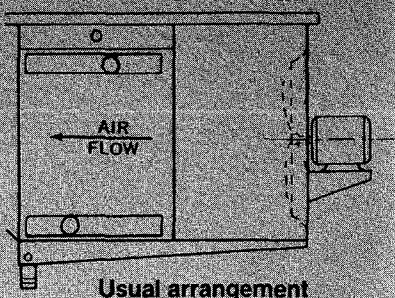


Usual arrangement for freons TXV.





Usual arrangement for ammonia TXV or liquid recirculation (cross feed).



Usual arrangement for flooded or bottom feed liquid recirc.

BLOW THROUGH "BC" DRAW THROUGH "UC"

		DIMENSIONS					
	MODEL	A	B	C	D	E	F
BC4 AND BC3 BC4 AND UC3	-118	—	24	30	26	35	34
	-218	—	46	30	26	57	34
	-318	34	68	30	26	79	34
	-418	45	90	30	26	101	34
	-518	56	112	30	26	123	34
	-618	67	134	30	26	145	34
	-120	—	28	31	34	39	35
	-220	—	54	31	34	65	35
	-320	40	80	31	34	91	35
	-420	53	106	31	34	117	35
	-520	66	132	31	34	143	35
	-124	—	36	32	38	47	36
	-224	35	70	32	38	81	36
	-324	52	104	32	38	115	36
	-424	69	138	32	38	149	36
	-524	86	172	32	38	183	36

Dimensions & specifications are for catalog purposes and subject to change without notice.

Certified drawings will be furnished on request.

RIGIDBILT INC
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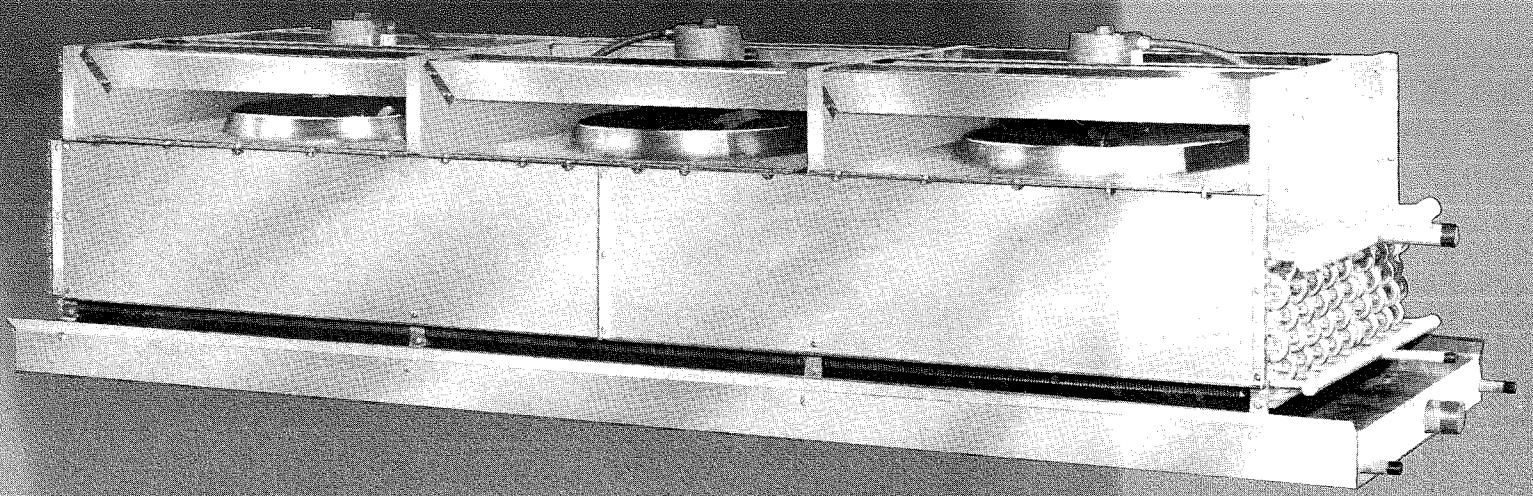
312-671-1512 1-800/468-8648
Telex 62927299

Bulletin LV68-30

RIGIDBILT

Manufacturers, Designers & Engineers of

REFRIGERATION and HEAT TRANSFER EQUIPMENT



LV product coolers

LOW VELOCITY

- Series: LV-18 4,800 CFM to 13,125 CFM
- Series: LV-24 4,950 CFM to 21,600 CFM
- Ammonia, Freons, Brines, Glycols
- Flooded, TXV, Recirculated
- Copper, Steel, Stainless Steel and Aluminum Coils
- Cabinets: Hot Dip Galvanized and Stainless Steel

RIGIDBILT IS BETTER BUILT

LV product coolers

LOW VELOCITY

- **Product Holding Coolers**
- **Process Coolers**
- **Work Room Coolers**
- **4800-21,600 CFM**

LV-18 SERIES

MODEL	CFM	BASIC RATING 1° TD		FACE VELOCITY
		FLOODED/RECIRC	TXV	
LV-218-44	5,250	3,010	2,560	525
LV-218-64	5,050	3,940	3,350	505
LV-218-84	4,800	4,480	3,810	480
LV-318-44	7,875	4,515	3,840	525
LV-318-64	7,575	5,910	5,025	505
LV-318-84	7,200	6,720	5,715	480
LV-418-44	10,500	6,020	5,120	525
LV-418-64	10,100	7,880	6,700	505
LV-418-84	9,600	8,960	7,620	480
LV-518-44	13,125	7,525	6,400	525
LV-518-64	12,625	9,850	8,375	505
LV-518-84	12,000	11,200	9,525	480

FANS: 18" Diameter
MOTORS: Standard, ¼ H.P. 115/1/60 Wired to Individual Junction Boxes.
Options: Two Speed, Three Phase

LV-24 SERIES

MODEL	CFM	BASIC RATING 1° TD		FACE VELOCITY
		FLOODED/RECIRC	TXV	
LV-124-44	5,400	3,005	2,555	540
LV-124-64	5,200	3,935	3,345	520
LV-124-84	4,950	4,475	3,805	495
LV-224-44	10,800	6,010	5,110	540
LV-224-64	10,400	7,870	6,690	520
LV-224-84	9,900	8,950	7,610	495
LV-324-44	16,200	9,015	7,665	540
LV-324-64	15,600	11,805	10,035	520
LV-324-84	14,850	13,425	11,415	495
LV-424-44	21,600	12,020	10,220	540
LV-424-64	20,800	15,740	13,380	520
LV-424-84	19,800	17,900	15,220	495

FANS: 24" Diameter
MOTORS: Standard, ½ H.P. 230/460/3/60-1150 R.P.M. Wired to Individual Junction Boxes
Options: Two Speed, Single Phase

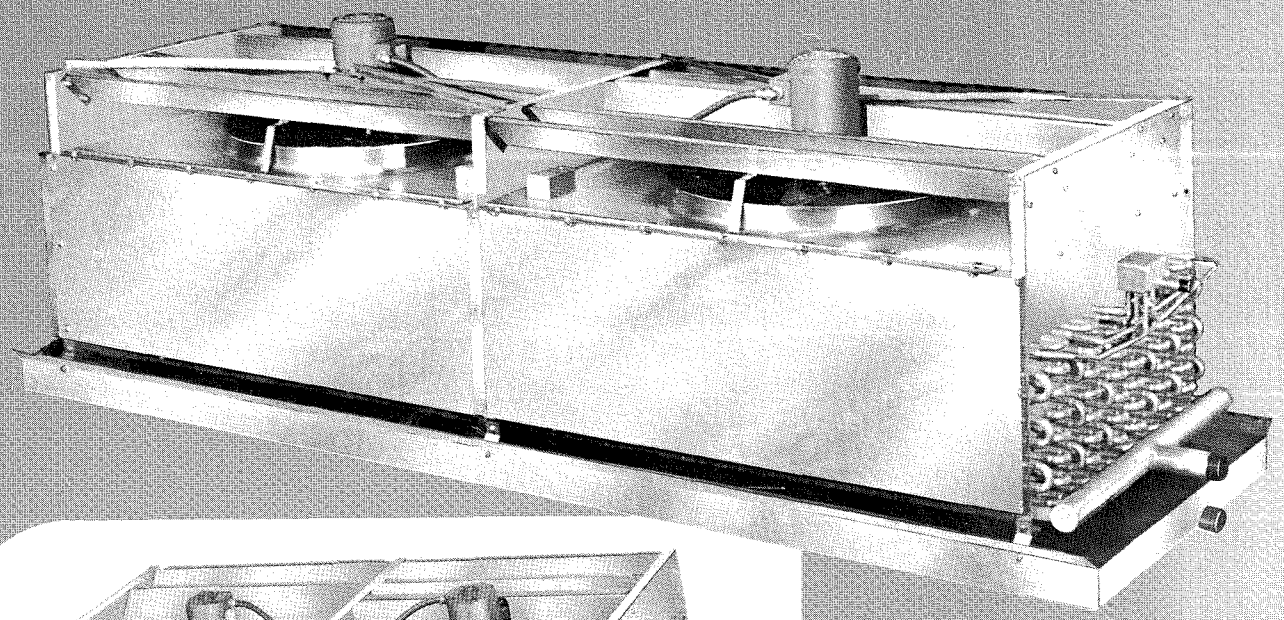
HALOCARBON COILS— Copper tubes and aluminum fins

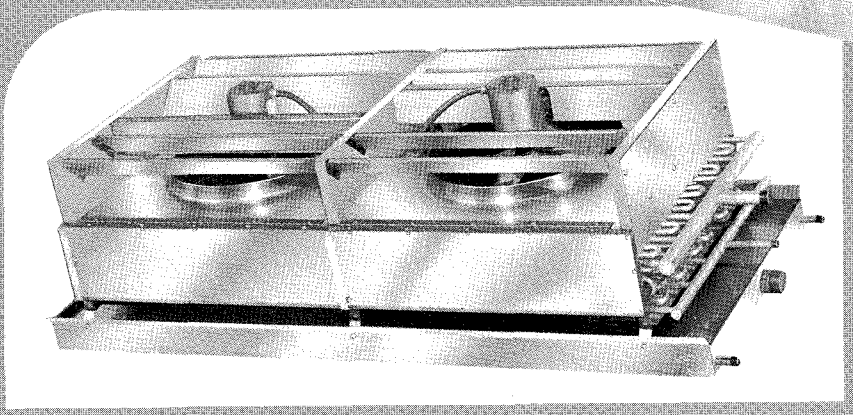
AMMONIA COILS—Steel, hot dip galvanized ¾" O.D. x .045" wall—A214 tubes. ¾" O.D. x .083" wall tubes available

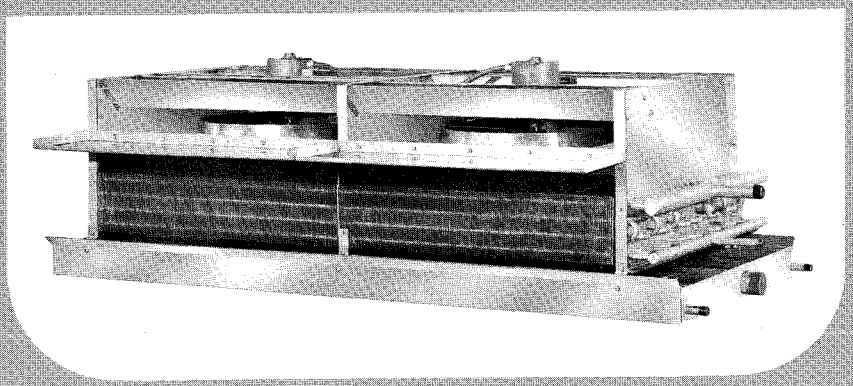
CABINETS—Steel, Hot Dip galvanized and stainless steel type 304

DRAIN PANS: Standard air defrost—hot dip galvanized inner pan with 1" thick insulation and stainless steel type 304 outer pan.

HOT GAS PAN—Carbon steel coil and inner pan with galvicon finish, 1" insulation and stainless steel type 304 outer pan.







RIGID FLANGE CONSTRUCTION for added unit life. All motors are wired to junction boxes.

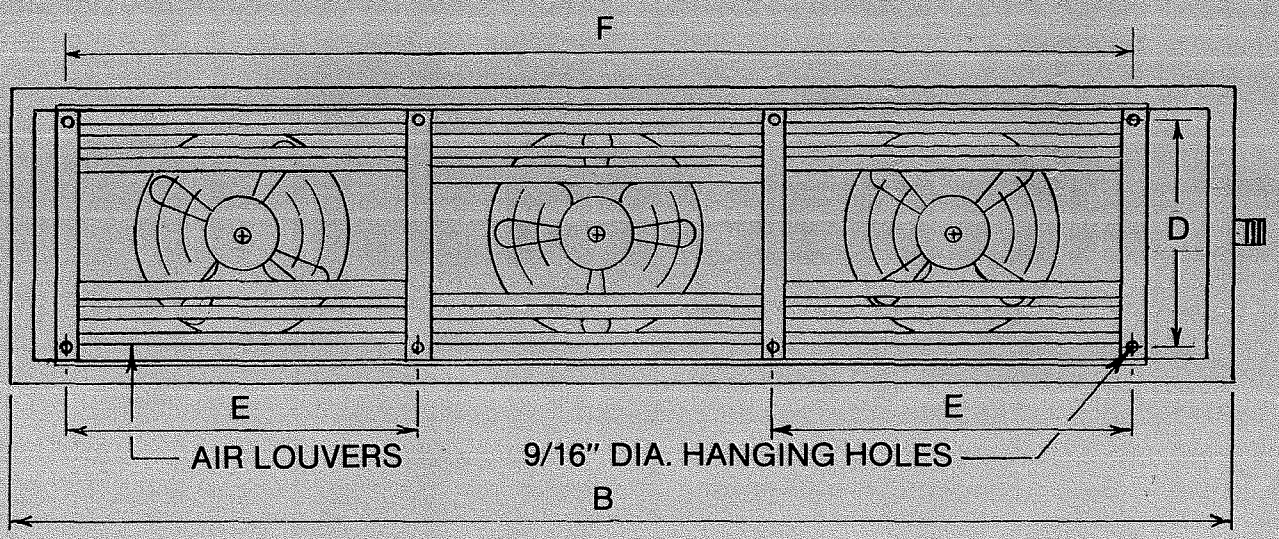
HINGED SIDE PANELS available for coil washdown. All hinges are continuous type, SS-304.

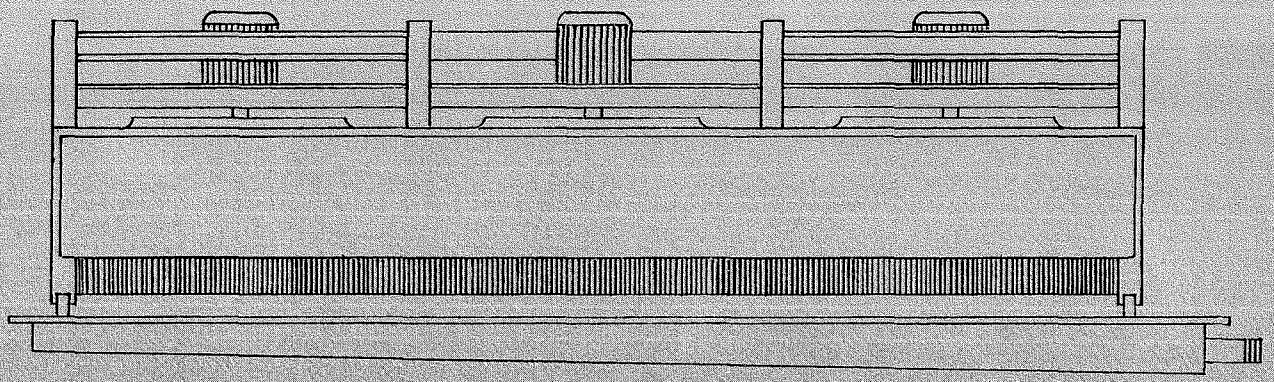
MODEL DESIGNATION

LV-318-64-RAHG

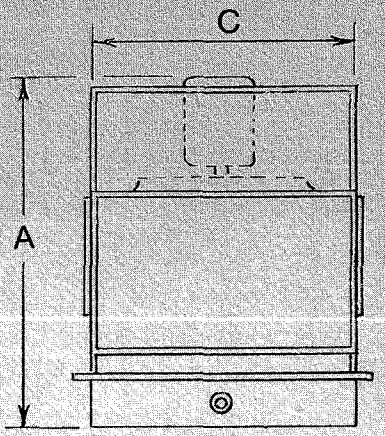
- RIGIDBILT LOW VELOCITY UNIT
- (3) 18" PROPELLERS
- ROWS = 6
- FINS PER INCH = 4
- F = FLOODED, X = DIRECT EXPANSION, R = RECIRCULATED } FEED
- REFRIGERANT { A = AMMONIA, F = HALOCARBON, B = BRINE
- DEFROST TYPE { A.D. = AIR, H.G. = HOT GAS, W.D. = WATER DEFROST

OPTIONS: STAINLESS STEEL & ALUMINUM COILS (RATINGS FOR S.S. & ALUMINUM AVAILABLE ON REQUEST)





MODEL	DIMENSIONS					
	A	B	C	D	E	F
LV-218-44 64 84	26 30 34	87	20	18	—	73½
LV-318-44 64 84	26 30 34	123	20	18	36	109½
LV-418-44 64 84	26 30 34	159	20	18	—	145½
LV-518-44 64 84	26 30 34	195	20	18	36	181½
LV-124-44 64 84	26 30 34	55	36	34	—	41½
LV-224-44 64 84	26 30 34	95	36	34	—	81½
LV-324-44 64 84	26 30 34	135	36	34	40	121½
LV-424-44 64 84	26 30 34	175	36	34	—	161½



Dimensions & specifications are for catalog purposes and subject to change without notice.

Certified drawings will be furnished on request.

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RIGIDBILT

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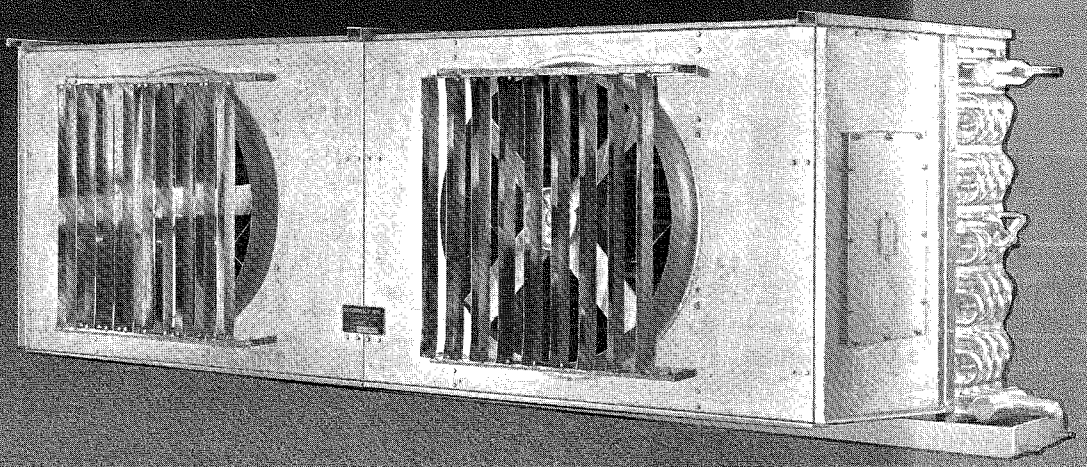


AF freezer units

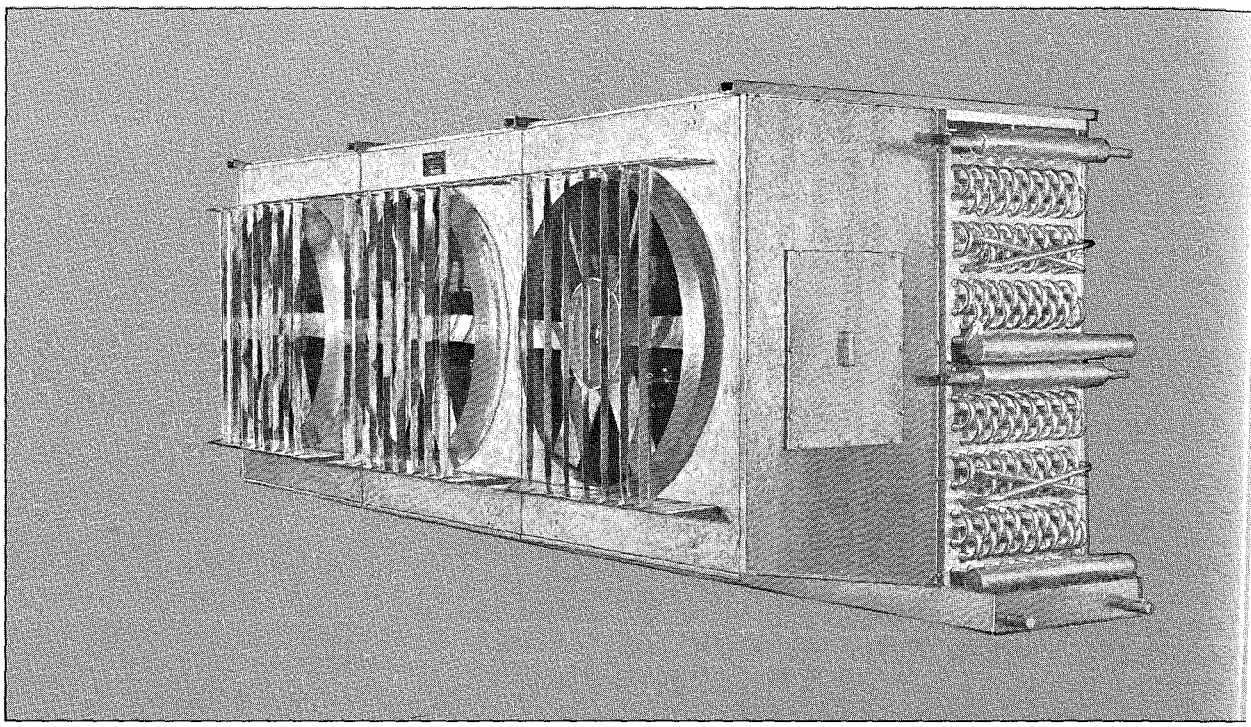
Axial Fans

- **16,000 to 54,000 CFM.**
- **Ammonia, Freons, Brines, etc.**
- **Flooded, Recirculated, TXV Operation.**
- **Hot Gas Defrost, Water Defrost.**
- **Copper, Steel, Stainless Steel and Aluminum Coils.**

RIGIDBILT IS BETTER BUILT

AF freezer units

Axial Fans



COILS: Ammonia coils are fabricated with ¾" O.D. x 0.045" wall thickness steel tubes, or 1.05" O.D. x 0.060" wall thickness steel tubes, or ¾" schedule 40 pipes. (Where coils are listed as 1.05" tubing, coils with ¾" pipe may be specified at no change in price.) Tubing is welded, flash removed, pressure tested at mill, ASTM Specification A-214. Fins are die-formed steel 0.015" thick, flat continuous plate type. All fins have die-formed collars around tubing for maximum heat transfer. Headers are round or rectangular tubing, or steel pipe. Tube sheets are die punched 12 or 14 gauge steel. All joints are acetylene welded and the coils are pressure tested with 300 lbs. air while submerged in water. The entire coil is hot dip galvanized after fabrication.

Freon coils have ¾" O.D. seamless hard drawn copper tubes. Fins are continuous flat plate type of 0.016" thick aluminum, with extruded die-formed collars. Tubes are mechanically expanded into fin collars to assure a lasting bond with high heat transfer. Headers are copper. Return bends and header joints are brazed with an alloy of copper and phosphorus at approximately 1,300°F. with no flux. The alloy is exceptionally fluid, penetrates deeply into joints, and assures gas-tight connections even with severe temperature changes.

Units with steel coils may be used with either ammonia or freons, using flooded, recirculated, or TXV operation, as listed. On smaller units, capacities for flooded or recirculated operation are shown for copper and steel coils. Larger units list flooded, recirculated, and TXV ratings for steel coils and only TXV operation for copper coils. If copper coils are required for flooded or recirculated operation, please consult Rigidbilt for data and prices.

MOTORS: Motors are standard NEMA frame, open type, drip proof, of reputable manufacture. Speeds are either 1,750 or 1,140 R.P.M. to suit the fan. All motors are ball bearing, with either sealed lubrication or grease fittings, with grease selected for proper air temperatures. Lubrication should be checked periodically, as suggested by motor manufacturers. Only non-corrosive, mineral base grease should be used for motors and over-lubrication should be avoided.

When required, 2-speed motors, or totally enclosed motors, or motors with special current characteristics can be furnished.

Wiring for all motors should be adequate for the nominal cu horsepower listed plus about 40% to take care of overlo varying speeds, static pressures, and air temperatures. devices should properly be sized after units are running room temperatures.

FANS: Fans are cast aluminum, SS-304, or Semi-Alumin

Fans are mounted directly on motor shafts to operate at 1,1 R.P.M.

EXTERNAL STATIC PRESSURES: Fans and motors are deliver the rated CFM with light or medium frost on coi external static pressures, fans will deliver correspondingly n will draw somewhat lower amperage. Since large air volum air velocities are generally desirable in freezers, the abc ment provides excellent overall performance of these uni

CABINET CONSTRUCTION: Cabinets are available wit galvanized steel or with all parts hot dip galvanized after Panels are 12 or 14 gauge steel with all edges flanged fo

End panels are provided with large access doors for entr end to service the unit.

Bottom panels are pitched toward the rear to drain the en the drain pan.

The fan section is bolted to the coil section and the two rated if desired.

Heavy structural channels tie the coil section and fan sect and act as hangers for the assembled units.

On water defrost units, a galvanized steel water distrib mounted above the coil to defrost the finned section, r and headers. Both the return bend end and header end with covers to prevent splash off the ends.

MODEL AND DESCRIPTION	COIL ROWS	COIL FINS	BASIC RATING FL-REC	BASIC RATING TXV	HP PER FAN	SHIP WEIGHT LBS.	LINEAL FT. TUBING	COIL VOL. CU. FT.	WATER DEFROST GPM @ 10 P.S.I.	HORIZONTAL SURGE DRUMS 10° & HIGHER	HORIZONTAL SURGE DRUMS −40° TO 10°	HORIZONTAL SURGE DRUMS APPROX. TONS
AF 160 ▪ 16,000 CFM ▪ Two 30″ Fans ▪ ¾″ O.D. Steel or Copper Coils	4	4 3	7,450 6,600	6,480 5,830	1	1700 1570	533	1.5	13	12 x 36	14 x 48	9.5
	6	4 3	10,300 9,210	8,960 8,010	1	2130 1930	800	2.2	20	14 x 48	16 x 48	13.2
	8	4 3	13,130 11,600	11,430 10,100	1½	2550 2280	1066	2.9	27	16 x 36	18 x 48	16.5
	10	4 3	14,590 13,130	12,700 11,420	2	3000 2650	1333	3.5	34	16 x 48	18 x 48	18.5

MODEL AND DESCRIPTION	COIL ROWS	COIL FINS	BASIC RATING FL-REC	BASIC RATING TXV	HP PER FAN	SHIP WEIGHT LBS.	LINEAL FT. TUBING	COIL VOL. CU. FT.	WATER DEFROST GPM @ 10 P.S.I.	HORIZONTAL SURGE DRUMS 10° & HIGHER	HORIZONTAL SURGE DRUMS −40° TO 10°	HORIZONTAL SURGE DRUMS APPROX. TONS
AF 210 ▪ 21,000 CFM ▪ Two 30″ Fans ▪ ¾″ O.D. Steel or Copper Coils	4	4 3	9,930 8,775	8,640 7,640	2	2160 1980	702	1.8	16	14 x 48	16 x 36	12.5
	6	4 3	13,670 12,270	11,880 10,670	2	2700 2430	1053	2.8	24	16 x 48	18 x 48	17.0
	8	4 3	17,190 15,170	14,970 13,190	3	3260 2900	1408	3.7	32	16 x 60	18 x 60	21.5
	10	4 3	19,120 17,140	16,630 14,910	3	3800 3350	1755	4.7	40	18 x 60	20 x 60	24.0

MODEL AND DESCRIPTION	COIL ROWS	COIL FINS	BASIC RATING FL-REC	BASIC RATING TXV	HP PER FAN	SHIP WEIGHT LBS.	LINEAL FT. TUBING	COIL VOL. CU. FT.	WATER DEFROST GPM @ 10 P.S.I.	HORIZONTAL SURGE DRUMS 10° & HIGHER	HORIZONTAL SURGE DRUMS −40° TO 10°	HORIZONTAL SURGE DRUMS APPROX. TONS
AF 240 ▪ 24,000 CFM ▪ Three 30″ Fans ▪ ¾″ O.D. Steel or Copper Coils	4	4 3	11,175 9,900	9,720 8,745	1	2420 2210	800	2.1	20	14 x 48	16 x 48	14.3
	6	4 3	15,450 13,815	13,440 12,015	1	3040 2730	1200	3.2	30	16 x 48	18 x 48	19.5
	8	4 3	19,695 17,400	17,145 15,150	1½	3540 3130	1600	4.3	40	18 x 48	20 x 60	24.5
	10	4 3	21,885 19,695	19,050 17,130	2	4310 3790	2000	5.3	50	18 x 60	20 x 60	27.8

MODEL AND DESCRIPTION	COIL ROWS	COIL FINS	BASIC RATING FL-REC	BASIC RATING TXV	HP PER FAN	SHIP WEIGHT LBS.	LINEAL FT. TUBING	COIL VOL. CU. FT.	WATER DEFROST GPM @ 10 P.S.I.	HORIZONTAL SURGE DRUMS 10° & HIGHER	HORIZONTAL SURGE DRUMS −40° TO 10°	HORIZONTAL SURGE DRUMS APPROX. TONS
AF 250 ▪ 25,000 CFM ▪ Two 30″ Fans ▪ ¾″ O.D. Steel or Copper Coils	4	4 3	11,700 10,350	10,170 9,000	3	2200 2030	828	2.2	20	14 x 48	16 x 48	15.0
	6	4 3	16,160 14,460	14,060 12,570	3	2720 2470	1242	3.3	30	16 x 48	18 x 48	20.0
	8	4 3	20,600 18,180	17,910 15,820	3	3260 2930	1656	4.4	40	18 x 48	20 x 60	25.0
	10	4 3	22,900 20,600	19,920 17,910	3	3780 3360	2070	5.4	50	18 x 60	20 x 60	28.8
AF 251 ▪ 25,000 CFM ▪ Two 30″ Fans ▪ 1.05″ O.D. Steel Coils	4	4 3	14,600 12,900		3	2690 2450	828	4.5	30	18 x 48	18 x 60	18.5
	6	4 3	19,900 17,900		3	3460 3080	1242	6.8	45	20 x 48	20 x 72	25.0
	8	4 3	24,500 22,300		3	4210 3700	1656	9.1	60	20 x 72	20 x 72	30.6

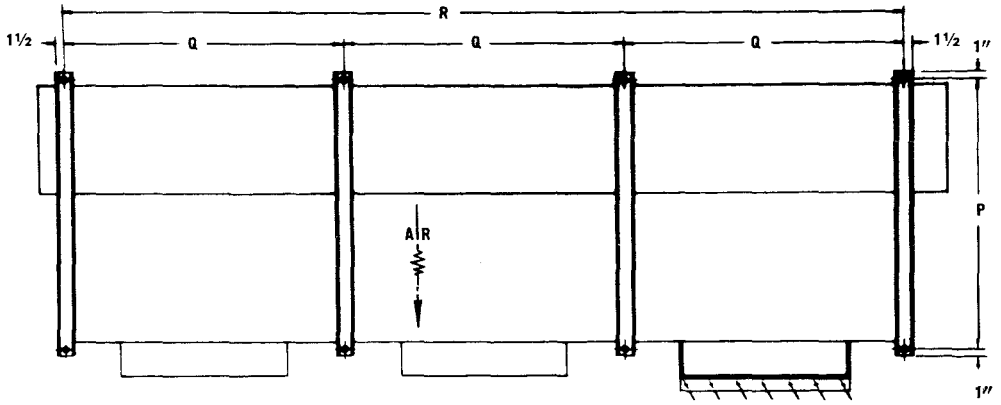
MODEL AND DESCRIPTION	COIL ROWS	COIL FINS	BASIC RATING FL-REC	BASIC RATING TXV	HP PER FAN	SHIP WEIGHT LBS.	LINEAL FT. TUBING	COIL VOL. CU. FT.	WATER DEFROST GPM @ 10 P.S.I.	HORIZONTAL SURGE DRUMS 10° & HIGHER	HORIZONTAL SURGE DRUMS −40° TO 10°	HORIZONTAL SURGE DRUMS APPROX. TONS
AF 310 ▪ 31,000 CFM ▪ Two 36″ Fans ▪ ¾″ O.D. Steel or Copper Coils	4	4 3	14,400 12,780	12,550 11,100	3	3110 2850	1013	2.7	20	16 x 48	18 x 48	18.0
	6	4 3	19,920 17,850	17,330 15,540	3	3585 3195	1520	4.0	30	18 x 48	20 x 48	25.0
	8	4 3	25,400 22,450	22,100 19,530	5	4425 3905	2026	5.2	40	18 x 60	20 x 48	32.0
	10	4 3	28,300 25,400	24,600 22,100	5	5210 4560	2533	6.7	50	20 x 60	20 x 60	36.0
AF 311 ▪ 31,000 CFM ▪ Two 36″ Fans ▪ 1.05″ O.D. Steel Coils	4	4 3	18,000 15,900		3	3520 3130	1013	5.5	30	18 x 48	20 x 60	22.5
	6	4 3	24,600 22,100		5	4720 4130	1520	8.3	45	20 x 60	20 x 72	31.0
	8	4 3	30,200 27,600		5	5870 5080	2026	11.3	60	20 x 72	24 x 60	38.0

MODEL AND DESCRIPTION	COIL		BASIC RATING		HP PER FAN	SHIP WEIGHT LBS.	LINEAL FT. TUBING	COIL VOL. CU. FT.	WATER DEFROST GPM @ 10 P.S.I.	HORIZONTAL SURGE DRUMS		
	ROWS	FINS	FL-REC	TXV						10° & HIGHER	−40° TO 10°	APPROX. TONS
AF 350 ▪ 35,000 CFM ▪ Two 36″ Fans ▪ ¾″ O.D. Steel or Copper Coils	4	4 3	16,270 14,400	14,150 12,500	3	3080 2780	1152	3.0	24	FOR FLOODED OPERATION USE AF 351		
	6	4 3	22,450 20,150	19,530 17,530	3	3980 3540	1728	4.4	36			
	8	4 3	28,700 25,300	24,970 22,000	5	4940 4350	2304	5.9	48			
	10	4 3	31,850 28,700	27,700 24,970	5	5770 5030	2880	7.3	60			
AF 351 ▪ 35,000 CFM ▪ Two 36″ Fans ▪ 1.05″ O.D. Steel Coils	4	4 3	20,300 18,000		3	3900 3460	1152	6.1	36	18 x 60	20 x 72	25.0
	6	4 3	27,700 24,900		5	5250 4590	1728	9.4	54	20 x 72	20 x 72	35.0
	8	4 3	34,100 31,200		5	6560 5680	2304	13.0	72	24 x 48	24 x 72	42.5

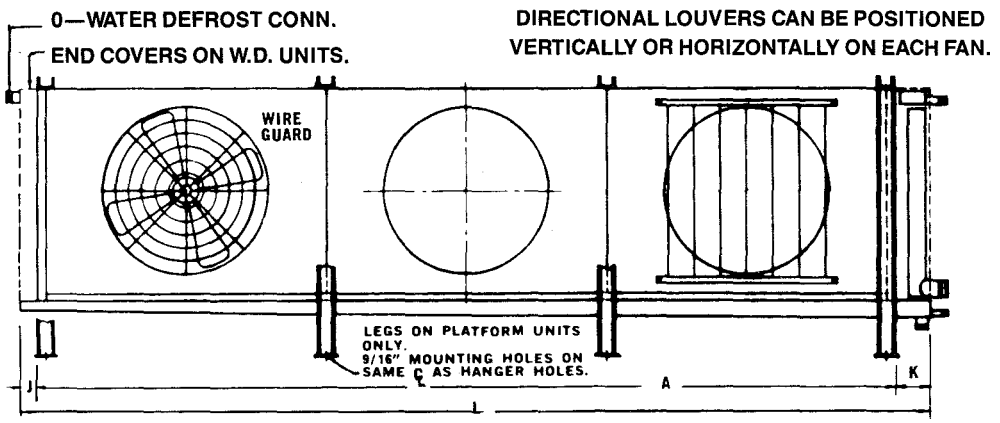
MODEL AND DESCRIPTION	COIL		BASIC RATING		HP PER FAN	SHIP WEIGHT LBS.	LINEAL FT. TUBING	COIL VOL. CU. FT.	WATER DEFROST GPM @ 10 P.S.I.	HORIZONTAL SURGE DRUMS		
	ROWS	FINS	FL-REC	TXV						10° & HIGHER	−40° TO 10°	APPROX. TONS
AF 410 ▪ 41,000 CFM ▪ Two 42″ Fans ▪ ¾″ O.D. Steel or Copper Coils	4	4 3	19,000 16,800	16,500 14,600	5	3880 3530	1344	3.6	24	FOR FLOODED OPERATION USE AF 411		
	6	4 3	25,800 23,200	22,500 20,200	5	4930 4410	2016	5.5	36			
	8	4 3	31,600 28,800	27,500 25,000	5	6030 5340	2688	7.2	48			
	10	4 3	35,700 33,100	31,300 28,800	5	7020 6160	3350	9.0	60			
AF 411 ▪ 41,000 CFM ▪ Two 42″ Fans ▪ 1.05″ O.D. Steel Coils	4	4 3	23,300 20,900		5	4850 4330	1344	7.3	36	20 x 60	24 x 48	29.5
	6	4 3	31,800 29,000		5	6350 5580	2016	11.1	54	24 x 60	24 x 60	40.0
	8	4 3	39,400 36,200		5	7880 6850	2688	14.6	72	24 x 60	24 x 72	49.5

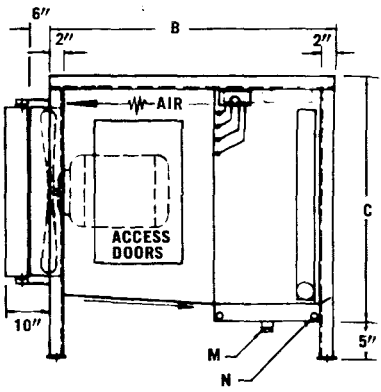
MODEL AND DESCRIPTION	COIL		BASIC RATING		HP PER FAN	SHIP WEIGHT LBS.	LINEAL FT. TUBING	COIL VOL. CU. FT.	WATER DEFROST GPM @ 10 P.S.I.	HORIZONTAL SURGE DRUMS		
	ROWS	FINS	FL-REC	TXV						10° & HIGHER	−40° TO 10°	APPROX. TONS
AF 470 ▪ 47,000 CFM ▪ Three 36″ Fans ▪ ¾″ O.D. Steel or Copper Coils	6	4 3	30,000 27,100	26,100 23,400	3	5980 5380	2352	6.0	36	FOR FLOODED OPERATION USE AF 471		
	8	4 3	36,700 33,400	31,850 29,000	5	7300 6500	3136	8.1	48			
	10	4 3	41,800 38,700	36,200 33,500	5	8600 7600	3920	9.1	60			
AF 471 ▪ 47,000 CFM ▪ Three 36″ Fans ▪ 1.05″ O.D. Steel Coils	4	4 3	27,500 24,400		3	5860 5260	1568	8.5	36	20 x 60	20 x 72	34.5
	6	4 3	37,600 33,800		5	7780 6900	2352	12.9	54	24 x 48	24 x 72	47.0
	8	4 3	46,400 42,200		5	9550 8340	3136	17.3	72	24 x 72	24 x 96	58.0

MODEL AND DESCRIPTION	COIL		BASIC RATING		HP PER FAN	SHIP WEIGHT LBS.	LINEAL FT. TUBING	COIL VOL. CU. FT.	WATER DEFROST GPM @ 10 P.S.I.	HORIZONTAL SURGE DRUMS		
	ROWS	FINS	FL-REC	TXV						10° & HIGHER	−40° TO 10°	APPROX. TONS
AF 540 ▪ 54,000 CFM ▪ Three 36″ Fans ▪ ¾″ O.D. Steel or Copper Coils	6	4 3	34,400 30,800	30,000 26,800	5	6550 5900	2688	6.8	36	FOR FLOODED OPERATION USE AF 541		
	8	4 3	42,000 38,200	36,600 33,200	5	8130 7230	3584	9.0	48			
	10	4 3	47,700 44,200	41,600 38,500	5	9580 8380	4480	11.5	60			
AF 541 ▪ 54,000 CFM ▪ Three 36″ Fans ▪ 1.05″ O.D. Steel Coils	4	4 3	31,500 27,900		5	6500 5850	1792	9.8	36	24 x 48	24 x 84	38.5
	6	4 3	43,000 38,600		5	8680 7640	2688	14.5	54	24 x 60	24 x 84	52.5
	8	4 3	53,000 48,200		7½	10,680 9380	3584	18.6	72	24 x 84	Two 24 x 60	64.0



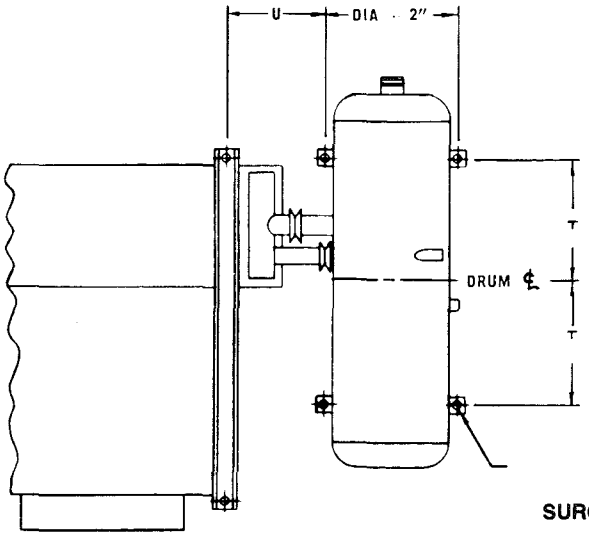
Dimensions and specs are for catalog purposes and subject to change without notice. Certified drawings will be furnished on request.





DIMENSIONS

	A	B				C	J	K	L	M			N	O	P				Q	R	S
		4 ROW	6 ROW	8 ROW	10 ROW					AIR DEF.	H.G. DEF.	WATER DEF.			4 ROW	6 ROW	8 ROW	10 ROW			
AF 160	103	40	44	48	52	40	3½	6½	113	2	2	2½	¾	1½	38	42	46	50	50	100	5
AF 210	120	40	44	48	52	44	3½	6½	130	2	2	2½	¾	1½	38	42	46	50	58½	117	5
AF 240	153	40	44	48	52	40	3½	6½	163	2	2½	3	1	2	38	42	46	50	50	150	5
AF 250	141	40	44	48	52	44	3½	6½	151	2	2½	3	1	2	38	42	46	50	69	138	5
AF 251	141	44	50	56	—	44	3½	6½	151	2	2½	3	1	2	42	48	54	—	69	138	5
AF 310	155	48	52	56	60	48	4	7	166	2½	2½	3	1	2	46	50	54	58	76	152	5
AF 311	155	52	58	64	—	48	4	7	166	2½	2½	3	1	2	50	56	62	—	76	152	5
AF 350	147	50	54	58	62	56	4	7	158	2½	2½	3	1	2	48	52	56	60	72	144	5
AF 351	147	54	60	66	—	56	4	7	158	2½	2½	3	1	2½	52	58	64	—	72	144	5
AF 410	147	50	54	58	62	68	4	7	158	2½	2½	4	1	Two 2	48	52	56	60	72	144	5
AF 411	147	54	60	66	—	68	4	7	158	2½	2½	4	1	Two 2	52	58	64	—	72	144	5
AF 470	171	50	54	58	62	68	4	8	183	2½	3	4	1	Two 2	48	52	56	60	56	168	5
AF 471	171	54	60	66	—	68	4	8	183	2½	3	4	1	Two 2	52	58	64	—	56	168	5
AF 540	171	50	54	58	62	76	4	8	183	2½	3	4	1¼	Two 2	48	52	56	60	56	168	6
AF 541	171	54	60	66	—	76	4	8	183	2½	3	4	1¼	Two 2	52	58	64	—	56	168	6



SURGE DRUM DIA.	U	SURGE DRUM LENGTH	T
10"–12"	12"	24"	6"
14"–16"–18"	13"	30"	9"
20"–24"	14"	36"	11"
		48"	16"
		60"	20"
		72"	24"
		84"	30"
		96"	30"

SURGE DRUMS